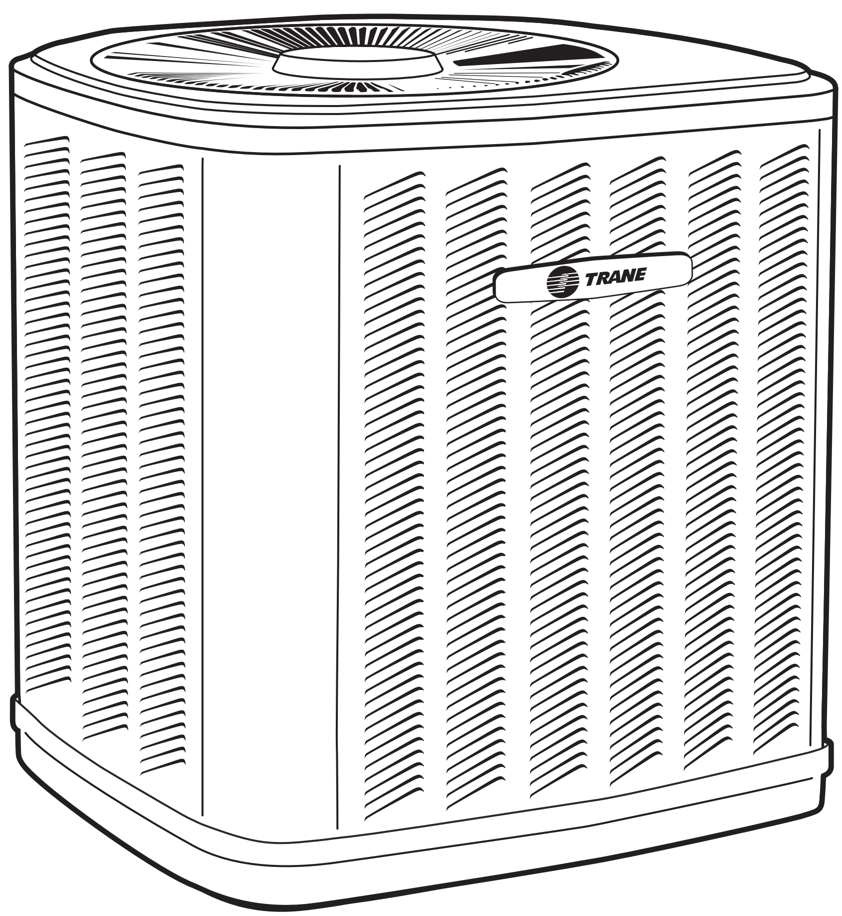
TRANE®

ChasRoberts
AIR CONDITIONING & HEATING
(602) 943-3426 or (520) 292-6858
www.ChasRoberts.com

Use and Care

Weathertron® Heat Pump



22-5202-03-3605 (EN)

Important Facts You Should Know About Your Heat Pump

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- During the cooling season, the heat pump operates like a conventional system.

- Do Not turn the air conditioning system off. Part-time cooling is poor economy. If the system is left off during the morning, the home will soak up heat and be more difficult to cool in the afternoon. You can actually save money by letting the thermostat determine when cooling is needed.

- During the hot, dry seasons, we recommend keeping the air conditioner blower on continuously. The air conditioning unit cools more evenly when the blower switch is in the ON position. The blower provides refreshing air movement and even temperatures throughout the home. The blower also circulates air through the filter, which helps remove dust, lint and other pollutants more efficiently.

- Shades, drapes, shutters, or screens should be installed on windows that are exposed to direct sunlight. Also, plant a tress or put up a canopy to protect your windows from the direct sun.

- **During the heating season,** the heat pump will deliver warm air, but not hot air like other systems, and will operate for long periods of time. THIS IS NORMAL. *Remember*, air which is 80 degrees is warm air and will heat the house even though it may feel cool to a hand, which is 98 degrees.

- During the cold weather, frost will accumulate on the outdoor coil. This will cause the heat pump to go into a defrost cycle. During this cycle, the outdoor fan will stop running and you will hear the humming of the compressor and feel cool air coming from the registers. You may also notice steam or water runoff from the outdoor unit and hear a “whooshing” sound. *THIS IS A NORMAL FUNCTION DURING THE DEFROST CYCLE*. Do not turn off the unit, change the temperature, or adjust the thermostat during this cycle. The defrost cycle will last from 1-10 minutes depending on the amount of ice on the coil. Then the unit will return to the heating mode.

- Night setback during the heating season is NOT recommended. The heat pump is not designed to raise space temperatures quickly.

- **For cooling and heating** . . . Leave your thermostat alone. When you have found a temperature that you prefer, it is best to leave the thermostat at that setting.

- Clean or replace the filters frequently. Dirty filters will lower performance and efficiency of your cooling. The filters are usually located at the return grille or at the indoor section of your unit.

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Optional Extended Warranty

Optional Extended Warranties are available from the Manufacturer. The Extended Warranty can be purchased from your dealer and is in effect when you have received an Extended Warranty Certificate from Trane. **No additional warranty, either written or implied, is extended by the Manufacturer without an Extended Warranty Certificate from Trane.** If you do not receive your Extended Warranty Certificate within 45 days of purchase, please call 800-554-6413. For additional information regarding the Extended Warranty, see page 5.

LIMITED WARRANTY
TRANE OUTDOOR UNITS
2TWA0, 2TWA3, 4TWA3, 2TWB3, 4TWB3, 2TTA0, 2TTA3, 2TTB3, 4TTA3, & 4TTB3

Models Less Than 20 Tons for Residential Use*
(Parts Only)

This limited warranty is extended by Trane, a business of American Standard, Inc., to the original purchaser and to any succeeding owner of the real property to which the Trane Weathertron® Heat Pump is originally affixed, and applies to products purchased and retained for use within the U.S.A. and Canada.

If any part of your Trane Weathertron® Heat Pump fails because of a manufacturing defect within five years from the date of original purchase, Trane will furnish without charge the required replacement part. Any local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.

If the sealed motor-compressor fails or if the outdoor coil should become defective, either or both events occurring because of a manufacturing defect within five years from the date of original purchase, Trane will furnish without charge the required replacement compressor and/or outdoor coil. Any local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.

This limited warranty does not cover failure of your Trane Weathertron® Heat Pump if it is damaged while in your possession, damage caused by unreasonable use of the Trane Weathertron® Heat Pump and/or damage from **failure to properly maintain** the Trane Weathertron® Heat Pump as set forth in the Use and Care manual **(see Proper Maintenance section).**

This limited warranty applies to product installed on or after 10/1/2001 where product is manufactured after 1/1/2000. This limited warranty is not retroactive to any installations prior to 10/1/2001 or on product produced prior to 2000.

THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT, INCLUDING BUT NOT SPECIFICALLY LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied limited warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Parts will be provided by our factory organization through an authorized service organization in your area listed in the yellow pages. If you wish further help or information concerning this limited warranty, contact:

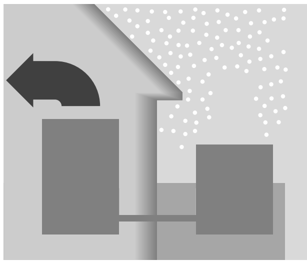
Trane
A Business of American Standard Inc.
P.O. Box 9010, Tyler, TX 75711-9010
Attention: Manager, After Sales Support

Or visit our web site: www.trane.com/residential

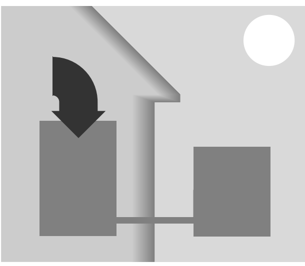
TW-406-3906

* This limited warranty is for residential usage of this equipment and not applicable when this equipment is used for a commercial application. A commercial use is any application where the end purchaser uses the product for other than personal, family or household purposes.

How it works to keep you comfortable



It heats in winter.



It cools in summer.

Congratulations on the purchase of your new Trane heat pump. Your heat pump is designed to work with a matched indoor unit creating a system that delivers years of dependable service and performance.

The heat pump is an air conditioning system that both heats and cools. It uses electric energy to move the heat that already exists.

During the winter, the heat pump extracts the heat present in cold winter air and pumps the heat into your home. (Yes, there's heat in the air even in the coldest weather.) In summertime, it functions as a conventional air conditioner, pulling the heat out of your home and releasing it outside.

Your heat pump also filters and dehumidifies.

When the Weathertron® heat pump circulates air, it also filters it. And since the heat pump is an air conditioner, it extracts excess moisture from the home, to help control humidity in muggy summer months.

Acquaint yourself with your new system by spending just a few minutes with this booklet. Learn about the operation of your system and the small amount of maintenance it takes to keep it operating at peak efficiency.

Proper maintenance for maximum efficiency

A heat pump is not a household appliance. It's a self-contained system that requires professional maintenance and repair.

That's why attempts at "do-it-yourself" repairs on an in-warranty unit may void the remainder of your warranty.

Other than performing the simple maintenance recommended in this manual, you should not attempt to make any adjustments to your heat pump system. Your dealer will be able to take care of any questions or problems you may have.

CAUTION

To prevent injury, death, or property damage, read and follow all instructions and warnings, including labels shipped with or attached to unit before operating your new air conditioning system.

WARNING

Disconnect all electrical power to the indoor air handler or furnace before removing access panels to perform any maintenance. Disconnect power to both the indoor and outdoor units. NOTE: There may be more than one electrical disconnect switch. Electric shock can cause personal injury or death.

CAUTION

Although special care has been taken to minimize sharp edges in the construction of your unit, be extremely careful when handling parts or reaching into the unit.

Help ensure top efficiency by cleaning or replacing the filter monthly.*

When the heat pump circulates and filters the air in your home, dust and dirt particles build up on the filter. Excessive accumulation can block the airflow, forcing the unit to work harder to maintain desired temperatures. And the harder your unit works, the more energy it uses.

Clean or replace your filter twice a month during seasons when the unit runs more often.

When replacing your filter(s), always use the same size and type that was originally supplied. Filters are available from your dealer.

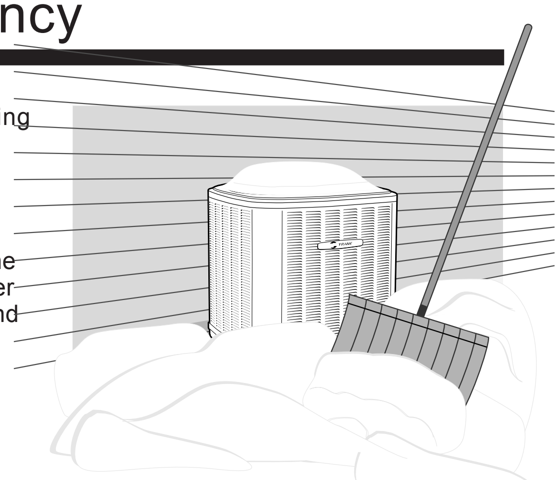
Where disposable filters are used, they must be replaced every month with the same size as originally supplied.

How to remove your filter.*

Ask your Trane dealer where the filter is located in your system and how to service it.

Just be sure to replace it with the arrows pointing in the direction of the airflow.

* Before removing the filter, see the owners manual furnished with the indoor unit.



Efficiency can be maintained by keeping outdoor unit clear of snow, ice and debris.

Efficient operation of your heat pump depends on the free flow of air over the coil. Anything that blocks the airflow, causes the compressor to work harder to move the warm air out of your house.

Buildup of snow and ice can restrict airflow. As soon as possible after accumulation, clean snow from the area around the heat pump.

To avoid overworking your unit, do not plant flowers or shrubbery right next to it. Also, make sure that nothing is stacked against the sides of the unit or draped over it.

Proper maintenance (cont.)

Making sure your outdoor unit is kept clear at all times helps it work at peak efficiency.

Keep your heat pump looking new for years.

Clean the enamel finish of your heat pump with soap and water. For stubborn grease spots, use a household detergent. Do not use lacquer thinner or other synthetic solvents as they may damage the finish.

Call your dealer for additional routine maintenance

Your heat pump system should be inspected regularly by a properly trained service technician. The inspection (preferably twice each year, but at least once a year) should include the following:

- Routine inspection of air filter(s). Replacement or cleaning as required.

CAUTION

Condensate drains should be checked and cleaned periodically to assure condensate can drain freely from coil to drain. If condensate cannot drain freely, water damage could occur.

- Inspection and cleaning of the blower wheel, housing, and motor as required.
- Inspection and, if required, cleaning of indoor and outdoor coils.
- Inspection of the indoor coil drain pan, plus the primary and secondary drain lines. If supplied, the auxiliary drain pan and line should be inspected at this time. Service should include cleaning, if required.
- A check of all electrical wiring and connections.
- A check for secure physical connections of individual components within units.

WARNING

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer or service agency for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product.

- Operational check for the heat pump system to determine actual working condition. Necessary repair and/or adjustment should be performed at this time.
- Your servicing dealer may offer an economical service or preventative maintenance agreement that covers seasonal inspections. Ask your dealer for further details.

How to operate your system for peak performance

Setting the temperature

Place the system switch on COOL, and the fan switch on AUTO. Then set the temperature by using the indicator on the thermostat* control.

Now your system will cool your house whenever the indoor temperature climbs above the thermostat setting. It will shut off when the desired room temperature is reached.

In winter, it works the same way. When the system switch is on HEAT, the system will operate whenever the room temperature falls below the temperature setting. Once the desired temperature is reached, the system will shut off.

Save energy with an electronic programmable thermostat.*

Program the thermostat for the temperatures that meet your comfort level. The Trane electronic programmable thermostat has up to four setup or setback periods each day, plus weekend and vacation programs.

* Accessory, purchased separately. Carefully read the accompanying thermostat manual for complete operating instructions.

Let the thermostat do its job.

Your system will perform most efficiently when you let the thermostat control it. Turning the system on and off manually is usually much less efficient. So let the thermostat do its job.

We recommend keeping the temperature setting at 78°F for cooling, 68°F for heating. However, you can select the temperature that meets your comfort level.

The point is, once you've set the thermostat, keep subsequent adjustments to a minimum.

When you're going to be away from home for a few days, or when outdoor temperatures are moderate, don't let the air conditioner run unnecessarily. Lower the thermostat to 55°F in the winter. And raise it to 85°F in summer. Then when you return, or when temperature conditions dictate, you can reset the system and it will resume making your home comfortable again.

Never stop the system by shutting off the main power.

If the main power is ever disconnected for more than three hours, turn off the thermostat. Then wait for at least three more hours after the power has been restored before turning the thermostat back on. Failure to follow this procedure could result in damage to your system.

CAUTION

If heating system is not operational during the cold weather months, provisions must be taken to prevent freeze-up of all water pipes and water receptacles. This is very important during times of vacancy.

How to help reduce summer humidity.

In summer, your heat pump does more than cool the air — it helps remove the excess moisture, that can make the inside of your home feel muggy. When removing this moisture your system must work harder than when simply cooling the air.

That's why kitchens, bathrooms and utility rooms should have vents and exhaust fans. These devices help prevent accumulation of moisture throughout the rest of the house so your air conditioner works less to keep you comfortable.

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The Problem Solver

Before you call for service, check the following:

Problem	Possible cause	Remedy
Insufficient heating or cooling	a. dirty filters b. air not circulating freely c. blocked outdoor coil	a. clean or replace b. check supply registers and return grills for blockage c. clear away leaves or other debris
Failure to operate	a. power off b. open circuit breaker or burned-out fuses c. improperly adjusted thermostat	a. make sure main switch is in ON position b. reset circuit breaker, or replace burned-out fuses c. check setting, adjust thermostat
Blue auxiliary heat light on	When outdoor temperature falls, intermittent lighting is normal	Monitor light. If it stays on continuously when above 30°F, or if it comes on when 50°F outdoors, call for service.
No Heating or Cooling – Blower does not operate	Blower door removed or ajar	Close door securely to restore power to blower
Unusual Noise		Call your local servicer

Reduce the burden of unexpected repair bills with a Trane Extended Warranty.

Trane offers the finest quality products and manufacturer's warranties on the market. But, like all good things, the Trane-provided limited warranty on your new comfort equipment will come to an end. To keep you protected, Trane offers the Extended Warranty Program. It picks up right where your Trane limited warranty leaves off. And, it offers years and years of reliable protection at a low cost. Ask your dealer for program details.

Extra Energy Tips

Insulation

1. Make sure your home is properly insulated. This is the single most important step in conserving energy. Thermal insulation should be specified in terms of thermal resistance (R-values). R-30 (10") is recommended for ceilings, R-11 (3-1/2) for exterior walls and floors over unheated areas. In colder climates, consider additional insulation.
2. Infiltration of humid outside air is your heating and cooling system's worst enemy — it could account for 15 to 30% of air conditioning energy requirements. Find the places where air can sneak into the home and plug them with caulking, weather-stripping or plastic. Also, weather-strip and caulk around all entrance doors and windows.
3. Cut heat transfer through your windows by 40 to 50% with double glazing (two panes of glass separated by a sealed air space) and low-e glass.
4. Use wood- or metal-frame storm windows even if single-glazed windows are high quality. The extra layer of glass and the layer of still air will cut heat transfer considerably.
5. Install storm doors at all entrances to your house.
6. Keep all windows and doors closed.
7. Remember that by increasing the glass area, you increase the amount of heat added in summer and lost in winter.
8. Make sure fireplaces have tight-fitting dampers which can be closed when the fireplace is not in use.
9. Invest in a humidifier to conserve energy in winter. The air in your home won't be as dry, so you stay comfortable at a lower temperature setting.

Heating

10. Locate the thermostat on an inside wall away from windows and doors.
11. Set the thermostat as low as comfort permits. Each degree over 68°F can add 3% to the amount of energy needed for heating.
12. People generate heat. So lower the thermostat a degree or two when expecting a large group of guests.

Cooling

13. Set the thermostat as high as comfort will permit.
14. Make sure attics are adequately ventilated to relieve heat buildup. If necessary, improve airflow by adding or enlarging vents.
15. When building a new house or renovating an old one, choose light-colored roof shingles to reflect more of the sun's heat.
16. During moderate weather, don't use the air conditioner unnecessarily.
17. Draw blinds or drapes to block the sunlight during the hottest part of the day.
18. Install awnings over windows exposed to direct sunlight.
19. In the cooling season, don't run kitchen and bath exhaust fans longer than necessary.
20. Don't place lamps, TV sets or other heat producing devices beneath a wall-mounted thermostat. Rising heat from the equipment may cause the heat pump to over cool your house.

Important Service Information

It's always a good idea to keep records — it will save you time and money. If it's necessary to have your air conditioner repaired, the serviceman will want to know if your unit is still under Warranty. Take a few minutes to record the following information here:

Outdoor Model Number ______________________________

Indoor Model Number ______________________________

Thermostat Model Number ______________________________

Date of Purchase ______________________________

Dealer ______________________________

Service Information

Call your installing dealer if the unit is inoperative. Before you call, always check the following to be sure service is required:

a. Be sure the main switch that supplies power to the unit is in the ON position.
b. Replace any burned-out fuses or reset circuit breakers.
c. Be sure the thermostat is properly set.

Service Phone ______________________________

Chas Roberts
AIR CONDITIONING & HEATING

(602) 943-3426

9828 North 19th Avenue
Phoenix, AZ 85021-1992

(520) 292-6858

4065 East Illinois Street
Tucson, AZ 85714-2106

www.ChasRoberts.com

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The Most Comfortable Call You Can Make!

Chas Roberts Air Conditioning is proud to be a family owned and operated business, serving Arizona since 1942.

As your HVAC system Installer, we can provide you with services to meet all of your Heating and Air Conditioning needs after you have taken possession of your new home:

- Sales
- Service & Repair
- Extended Warranties
- Preventative Maintenance

We are available to speak with you Monday-Friday 7am to 8pm, Saturday 7am to 5pm, and Sunday 9am to 4pm with extended hours during the summer.

Please call, or visit our website, with all of your HVAC questions or concerns.

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